Specifications of FIA Nexus

- 8-Port-injection valve with 2 sample loops — V_{min} = 20 µl; 2 measurement ranges
- Peristaltic pump(s) — 6-channel, step motor (long life)
- Flow rate per pump channel — 0.2 … 3 ml / min (adjustable in 9 Stufen as well as by choice of pump tubing diameter)
- Reagent consumption — 0.4 … 9 ml / measurement
- Photometer with 50 mm cuvette compartment — 10 and 50 mm cuvette
- Wavelength range — 400 … 950 nm
- Selection of wavelength — replaceable interference filter
- Measurement range — 0 … 2 AU (including blank compensation up to 0.5 AU)
- Compensation of inherent colour / turbidity using partial reagents (provided that these effects are not already suppressed / eliminated by the analysis method)
- Reproducibility / variance coefficient — typically ≤ 1 %
- Time for method change — < 10 min
- Integrated digestion unit consisting of UV and thermal reactors (if required)
- Can be coupled with other FIA Nexus devices for multi-channel system

Handling

- Controlled by **FIAStudio** software, which is also used for acquisition, processing, management, and archiving of the measurement data
- Pre-configured methods (method units and method files)
- Freely programmable methods (for method development and adaptation)
- Different calibration mode: linear and quadratic regression
- Any number of calibration standards
- Coupling of FIA system with software via serial interface RS 232 or USB

Autosampler

- single channel peristaltic pump
- position for dilution and rinsing
- stirring function at the sampling position (optional)
- several sample tray types (89 x 6 ml, 53 x 16 ml, 36 x 30 ml)
- software enables variable sample positioning on the sample tray (random access)
- can be combined with dilutor for automated dilutions from off-measurement range samples (optional)

Electrical connection

power supply	110 / 230 VAC ± 10 % , 50 / 60 Hz
power consumption	170 W

Dimensions

height:	362mm	depth:	490 mm	width:	171 mm (225 mm with digestion unit)
weight:	6.5 kg (10.5 kg with digestion unit)				

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